



TOSHIBA AM/FM STEREO RECEIVER SERVICE DATA

MODEL SA-300L

FILE NO. 173-011

SUPPLEMENT A



1. SPECIFICATIONS

FM TUNER SECTION

Frequency range:	88–108 MHz
Antenna input impedance:	300 ohm (balanced) 75 ohm (unbalanced)
Usable sensitivity:	2.5 μ V
Harmonic distortion:	mono 0.4% (400 Hz 100%) stereo 1.0% (400 Hz 100%)
Signal-to-noise ratio:	better than 60 dB
Stereo separation:	better than 35 dB
Capture ratio:	better than 3 dB
Image rejection ratio:	better than 50 dB
AM suppression ratio:	better than 45 dB
Frequency response:	20 Hz–15 kHz –3 dB

AM TUNER SECTION

Frequency range:	LW 145–360 kHz MW 530–1605 kHz
Usable sensitivity:	LW 54 dB (S/N 20 dB) MW 48 dB (S/N 20 dB)
Distortion factor:	LW 1% MW 1%
Image rejection ratio:	LW better than 35 dB MW better than 35 dB
IF rejection ratio:	LW better than 27 dB MW better than 30 dB
Signal-to-noise ratio:	LW better than 45 dB MW better than 45 dB
Selectivity:	LW 35 dB (10 kHz) MW 35 dB (10 kHz)

AUDIO SECTION

Total IHF music power:	44 Watts (8 ohm) 43 Watts (4 ohm)
R.M.S. continuous power:	14W x 2 (8 ohm) each channel driven 12W x 2 (4 ohm) each channel driven 12W x 2 (8 ohm) both channel driven
Harmonic distortion:	0.8% (at 14W output)
Inter modulation distortion:	0.8%
Frequency response:	20 Hz–50 kHz + 1 –3 dB
IHF power bandwidth:	15 Hz–25 kHz
Input sensitivity and impedance:	PHONO 3.0 mV (47k ohm) AUX 150 mV (50k ohm) TAPE PLAY 250 mV (50k ohm) TAPE REC 250 mV (50k ohm) DIN 30 mV
Recording output level:	
Signal-to-noise ratio:	PHONO 65 dB AUX 75 dB 1.0 mV
Residual noise:	
Speaker impedance:	4–16 ohm (A or B) 8–16 ohm (A + B)
Tone control:	bass (100 Hz) $\pm$ 10 dB treble (10 kHz) $\pm$ 10 dB
Damping factor:	20 (8 ohm)
Power source:	100V/120V/220V/240V, 50 Hz/60 Hz
Power consumption:	70W
Dimensions:	15-3/4" (W) x 11-3/8" (D) x 4-1/2" (H) (400 x 290 x 115 mm)
Weight:	15.6 lbs

TOKYO SHIBAURA ELECTRIC CO., LTD.

2-1, 5-CHOME, GINZA, CHUO-KU, TOKYO, JAPAN

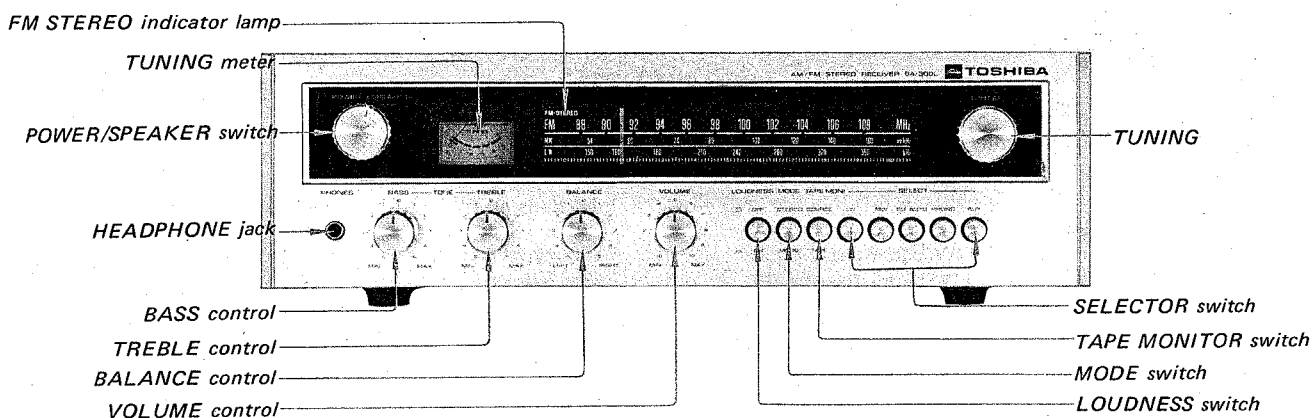


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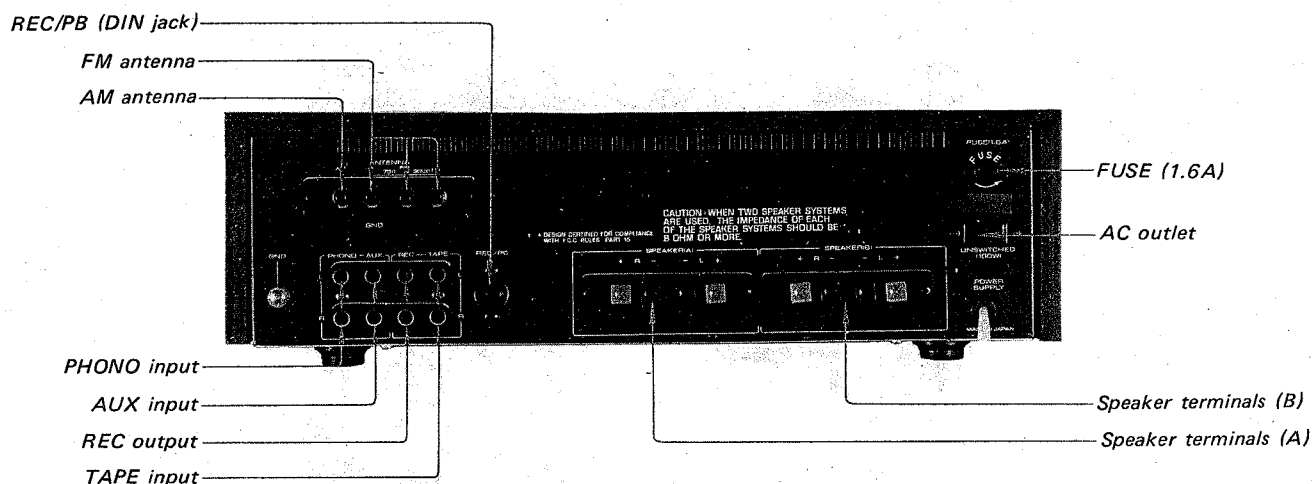
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2. OPERATING CONTROLS

2-1. FRONT VIEW

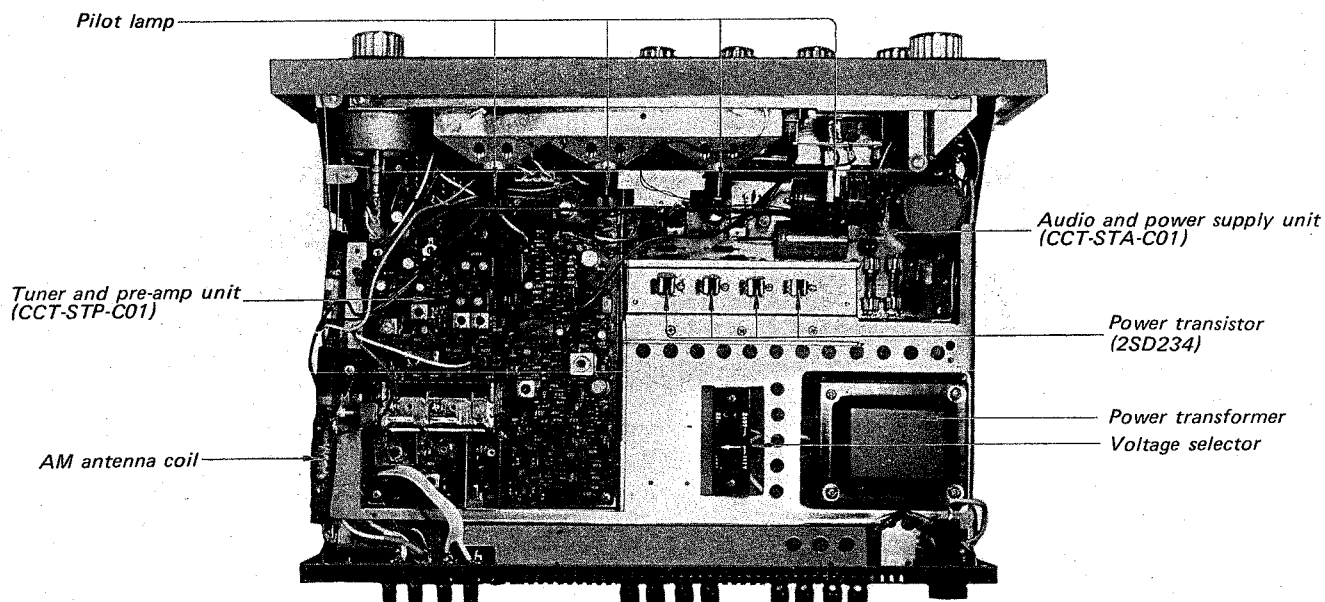


2-2. REAR VIEW



3. PARTS LOCATION

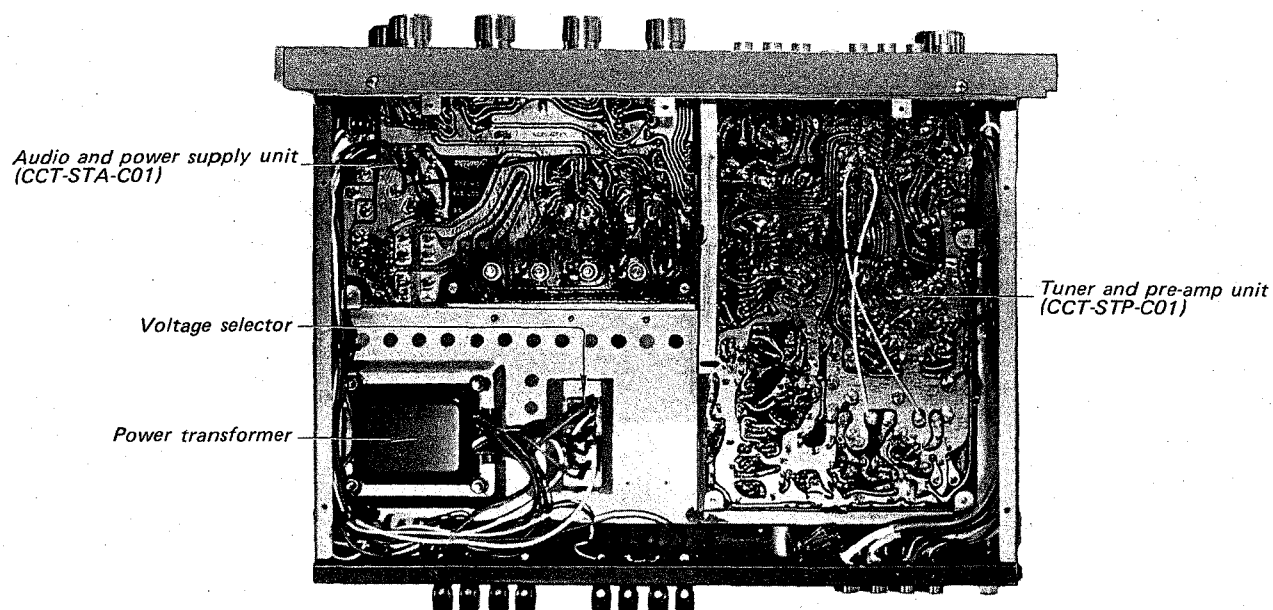
3-1. CHASSIS TOP VIEW





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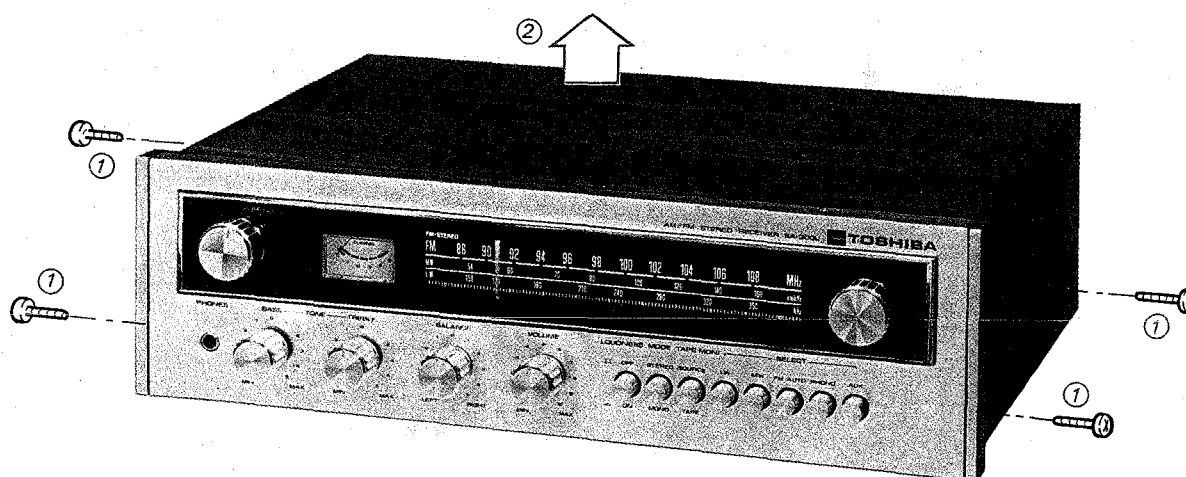
3-2. CHASSIS BOTTOM VIEW



4. DISASSEMBLY INSTRUCTION

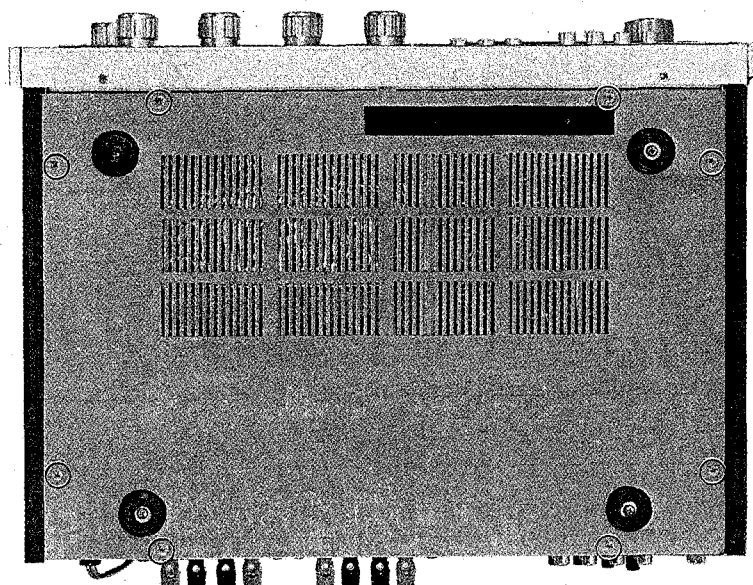
4-1. CABINET REMOVAL

1. Remove the four screws (①).
2. Pull out the cabinet (②).

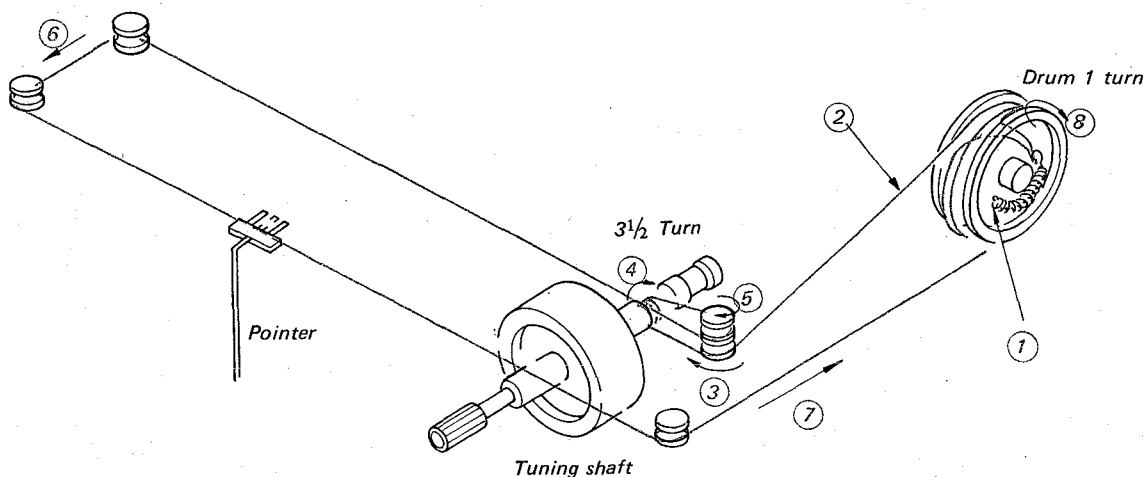


4-2. BOTTOM COVER REMOVAL

1. Remove the eight screws.
2. Remove the back cover.



5. DIAL CORD STRINGING



DIAL STRINGING BLOCK DIAGRAM

Load the dial cord as shown in the figure above. Get the cord through the eyelet as shown right. Give tension on the dial cord by tension-spring

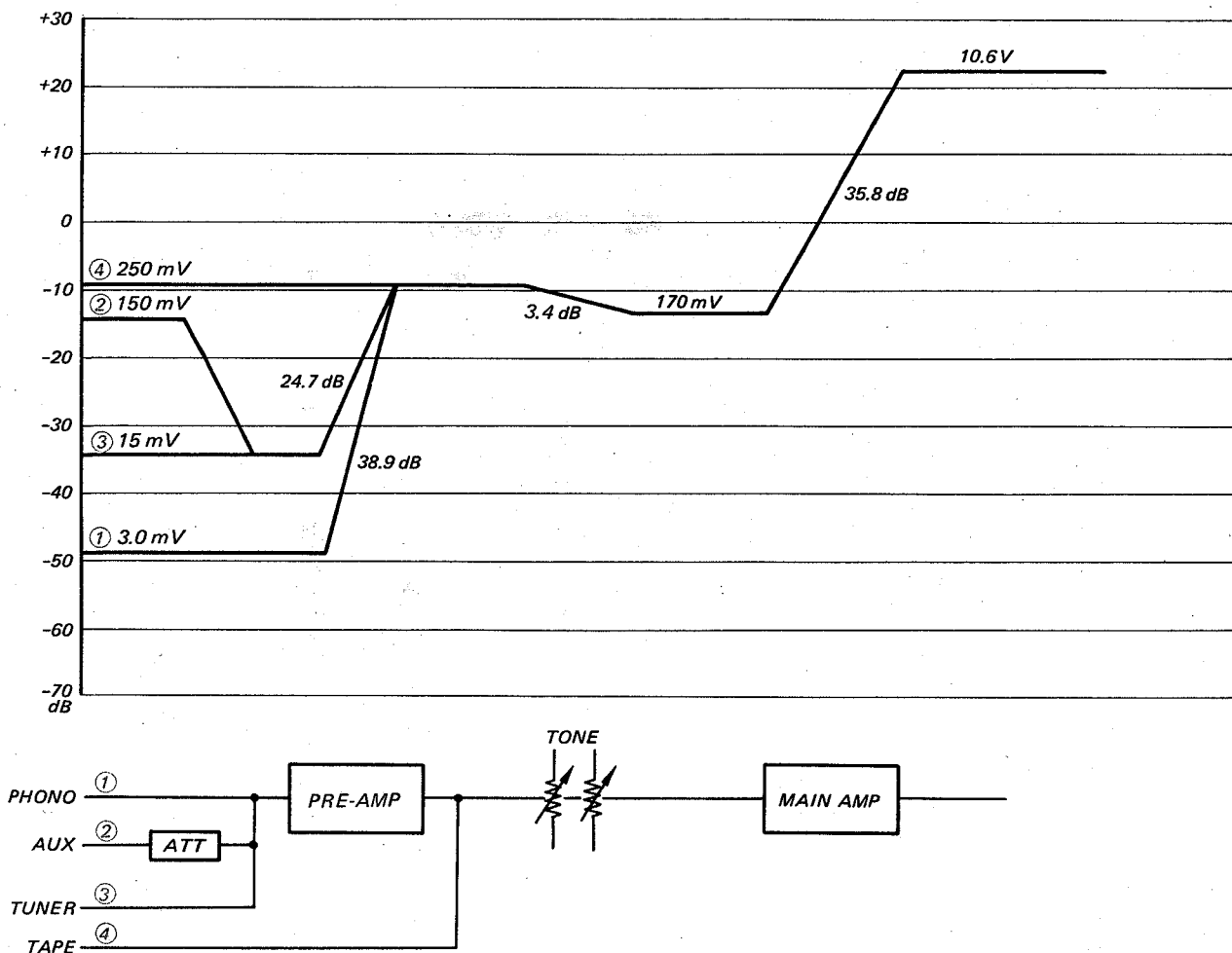
action.

Then squash the eyelet and fix it by the aid of a small amount cement not to loosen the cord.

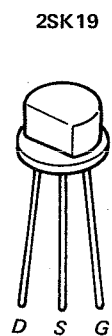


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6. LEVEL DIAGRAM

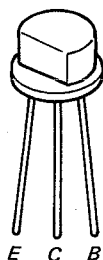


7. SEMICONDUCTOR BASE DIAGRAM



D Drain
S Source
G Gate

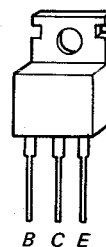
**2SC373
2SC941**



E Emitter
C Collector
B Base

**2SC380A
2SC732
2SC372
2SC734**

2SD234



E Emitter
C Collector
B Base

8. CIRCUIT ADJUSTMENTS

8-1. AM ADJUSTMENTS

Equipments

1. Signal generator
2. Sweep generator
3. Test loop antenna
4. Dummy load (8 ohm)
5. VTVM
6. Adjusting screw driver
7. Adjusting driver (use to antenna core)
8. Oscilloscope

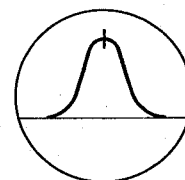
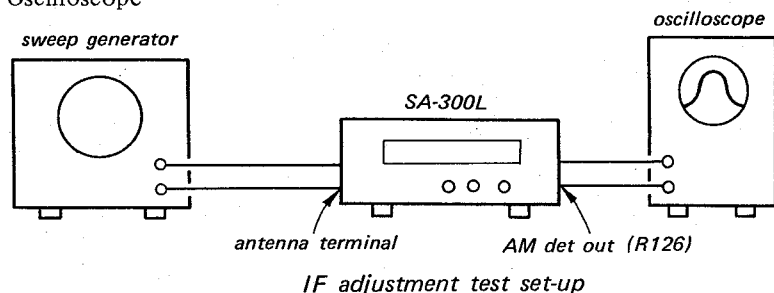
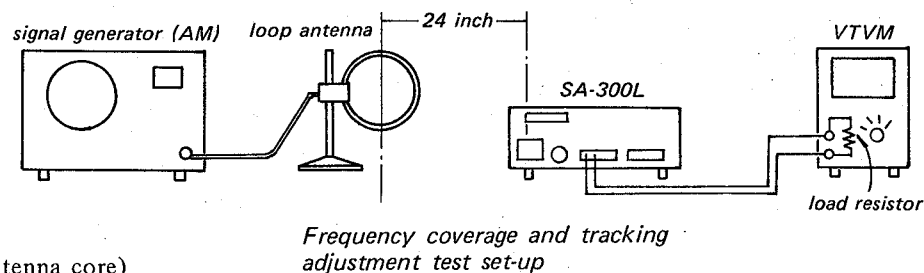


Fig. 8.

Step	Adjustment	Remarks
IF Response	IT-04, IT-07, IT-08 IF Transformer	Adjust for scope pattern with specified marker (455 kHz) as illustrated in Fig. 8.

Step	Adjusting circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM
		Input	Output				
1	MW OSC (Frequency Coverage)	Connect Signal generator to test loop	Connect VTVM to SP terminal	540 kHz (400 Hz 30% MOD)	Set the tuning gang at 540 kHz	1T-06	Maximum
2				1600 kHz (400 Hz 30% MOD)	Set the tuning gang at 1600 kHz	VC02-a	
Repeat Step 1 and 2							
3	MW ANT (Tracking)	Connect Signal generator to test loop	Connect VTVM to SP terminal	600 kHz (400 Hz 30% MOD)	Tune to 600 kHz signal	L001 (MW)	Maximum
4				1400 kHz (400 Hz 30% MOD)	Tune to 1400 kHz signal	VC03-a	Maximum
Repeat Step 3 and 4							
5	LW OSC (Frequency Coverage)	Connect Signal generator to test loop	Connect VTVM to SP terminal	150 kHz (400 Hz 30% MOD)	Set the tuning gang at 150 kHz	1T-05	Maximum
6				360 kHz (400 Hz 30% MOD)	Set the tuning gang at 360 kHz	VC02-b	Maximum
Repeat Step 5 and 6							
7	LW ANT (Tracking)	Connect Signal generator to test loop	Connect VTVM to SP terminal	150 kHz (400 Hz 30% MOD)	Tune to 150 kHz signal	L001 (LW)	Maximum
8				360 kHz (400 Hz 30% MOD)	Tune to 360 kHz signal	VC03-b	Maximum
Repeat Step 7 and 8							

Note: Make adjustment of the AM tuner section with the minimum input signal possible to the set.

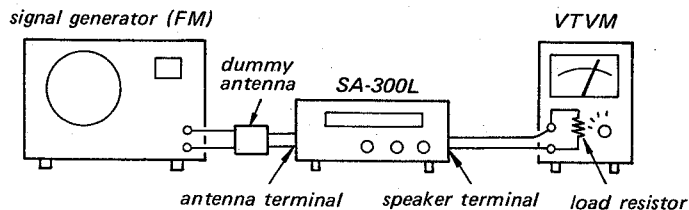


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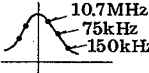
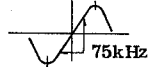
8-2. FM ADJUSTMENTS

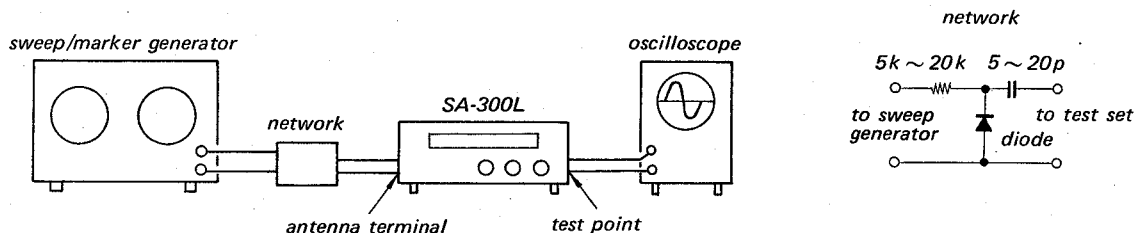
Test Equipments/Tools Required

1. Sweep marker generator
2. Signal generator (FM)
3. Oscilloscope
4. VTVM
5. FM dummy antenna (300 ohms)
6. Dummy load resistor
7. Network
8. Adjusting driver
9. Adjusting bar



FM Frequency coverage and tracking adjustment test set-up

Step	Adjusting circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM
		Input	Output				
1.	IF	Connect sweep generator to FM ANT terminal	Connect oscillo- scope to across R43 (FM DET OUT)	10.7 MHz	Near max. capa- city of VC. at position with no unrequired signal	1T01 1T03	
2	Radio Det.		Connect oscillo- scope to across R43 (FM DET OUT)			1T03 (secondary)	
3	OSC (Frequency coverage)	Connect to FM signal generator to FM ANT terminal	Connect VTVM to SP terminal	87.5 MHz (400 Hz 30% MOD)	Low end of dial scale	L04	Maximum
4				108 MHz (400 Hz 30% MOD)	Set the tuning gang at 108 MHz	FM OSC Trimmer	
Repeat Step 3 and 4							
5	RF	Connect FM signal generator to FM ANT terminal	Connect VTVM to SP terminal	88 MHz (400 Hz 30% MOD)	Tune to 88 Hz signal	L02	Maximum
6				108 MHz (400 Hz 30% MOD)	Tune to 108 MHz signal	FM ANT RF Trimmer	
Repeat Step 5 and 6							



FM IF adjustment test set-up

CAUTION:

When realigning the FM receiving frequency, the lowest side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in west germany.

8-3. FM MPX ADJUSTMENTS

Test Equipments/Tools Required

- | | | |
|-----------------------------|------------------------|---------------|
| 1. Signal generator (FM) | 5. VTVM | 9. Multimeter |
| 2. Dummy antenna (300 ohms) | 6. CR oscillator | |
| 3. Stereo modulator | 7. Dummy load resistor | |
| 4. Oscilloscope | 8. Adjusting driver | |

Step	Adjusting circuit	Connections		Position of tuning dial	Adjustment	VTVM
		Input	Output			
1	Dabuler & 19 kHz pilot signal	Connect FM stereo SG. to FM ANT. terminal. (see Fig. 7-3-1) 19 kHz signal ON. Sub channel signal ON. add 100 Hz signal from left CH.	Connect VTVM to right SP terminal	98 MHz	T02 T03	Maximum
2	FM stereo signal separation	Connect FM SG to FM ANT terminal	Connect Multimeter to across R71		IT02	Multimeter's DC Voltage Maximum
3		Connect FM stereo SG. to FM ANT terminal. (see Fig. 7-3-1) 19 kHz signal ON. Main channel, sub channel signal ON. add 1000 Hz signal from left CH.	Connect VTVM to right SP terminal		T02 T03 VR01	Minimum
4		Connect FM stereo SG. to FM ANT terminal. (see Fig. 7-3-1) 19 kHz signal ON. Main channel, sub channel signal ON. add 1000 Hz signal from right CH.	Connect VTVM to left SP terminal		T02 T03 VR01	Minimum
Repeat Step 2 and 3						

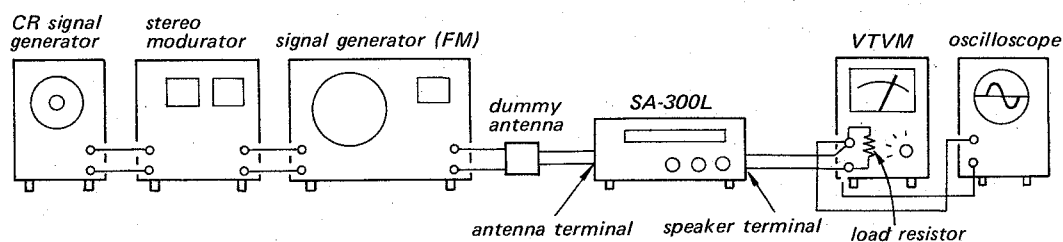


Fig. 8-3-1.
FM MPX adjustment test set-up



8-4. AUDIO ADJUSTMENTS

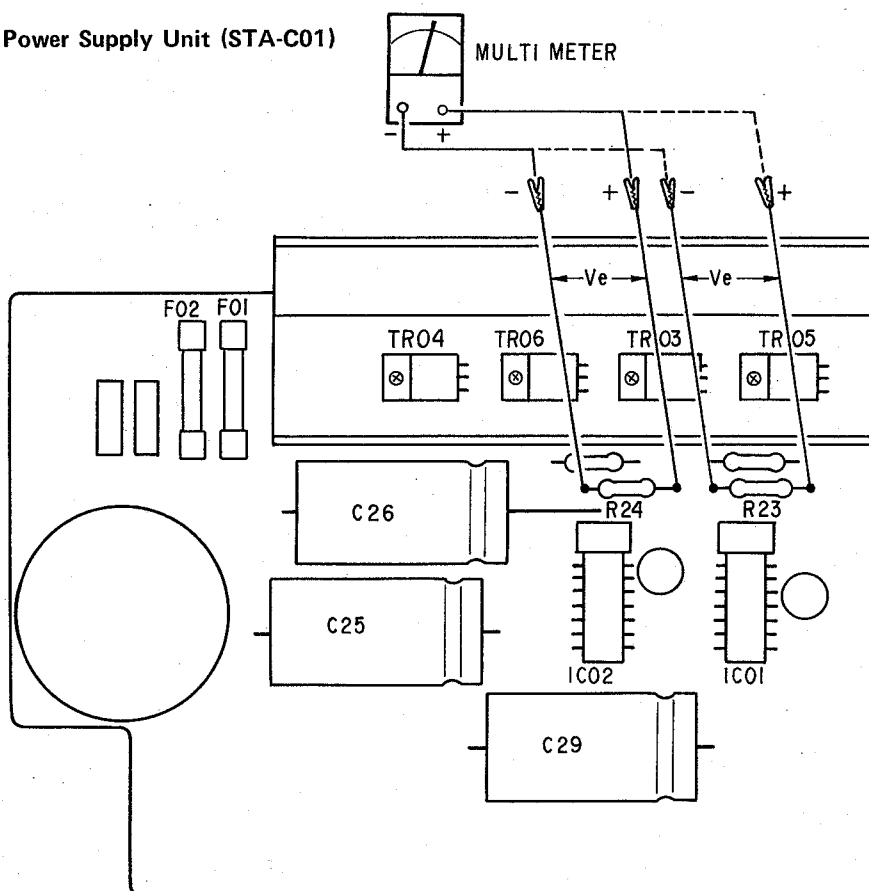
Test Equipments Required

1. Multi meter

CAUTION:

Never short-circuit the speaker terminal. When a strong input is fed to the speaker or the speaker terminal is short-circuited, the output circuit is protected against the possible damage through the protection fuse (F01, F02). When the protection circuit worked, change the attached 1.5A Fuse ( TLC Special Fuse) after taking away the mistake.

Audio and Power Supply Unit (STA-C01)



Power Amplifier IC Idle Adjustment

Adjustment	Remarks
L ch : R36	Adjust for $V_e = 0.02 \sim 0.0025$ Volts R23, R24
R ch : R37	Same as above

Adjust R36 (R37) so that the multimeter indicates as shown in table.

Note: Select the resistor either 15 k ohms or other value.

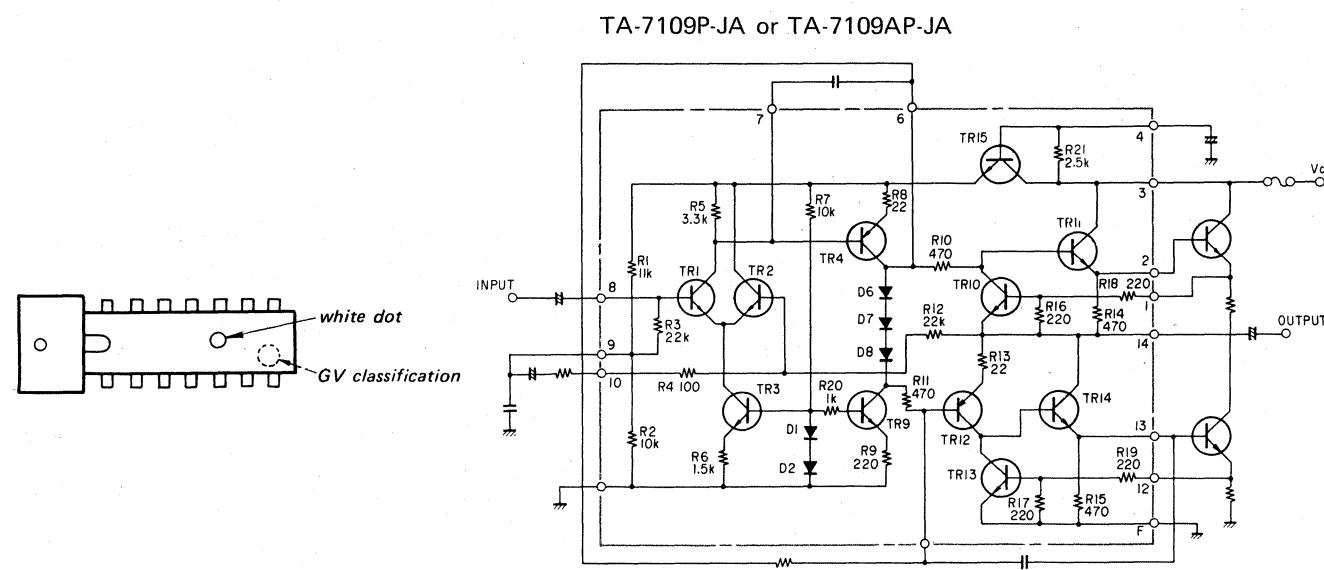
9. TROUBLE SHOOTING HINTS

Model SA-300L uses the current limiter circuit for a momentary overload and the fuse for a continuous overload.

The current limiter circuit contained in the driver stage IC limits the transistor current to 2.8A peak-to-peak for protecting the power transistors and the IC

from surge current that is caused by a momentary overlevelled input and short circuit of speaker terminals.

The special time-lag fuse (1.5A, 125V class A) to with stand heavy surges protects the unit from continuous over-current.



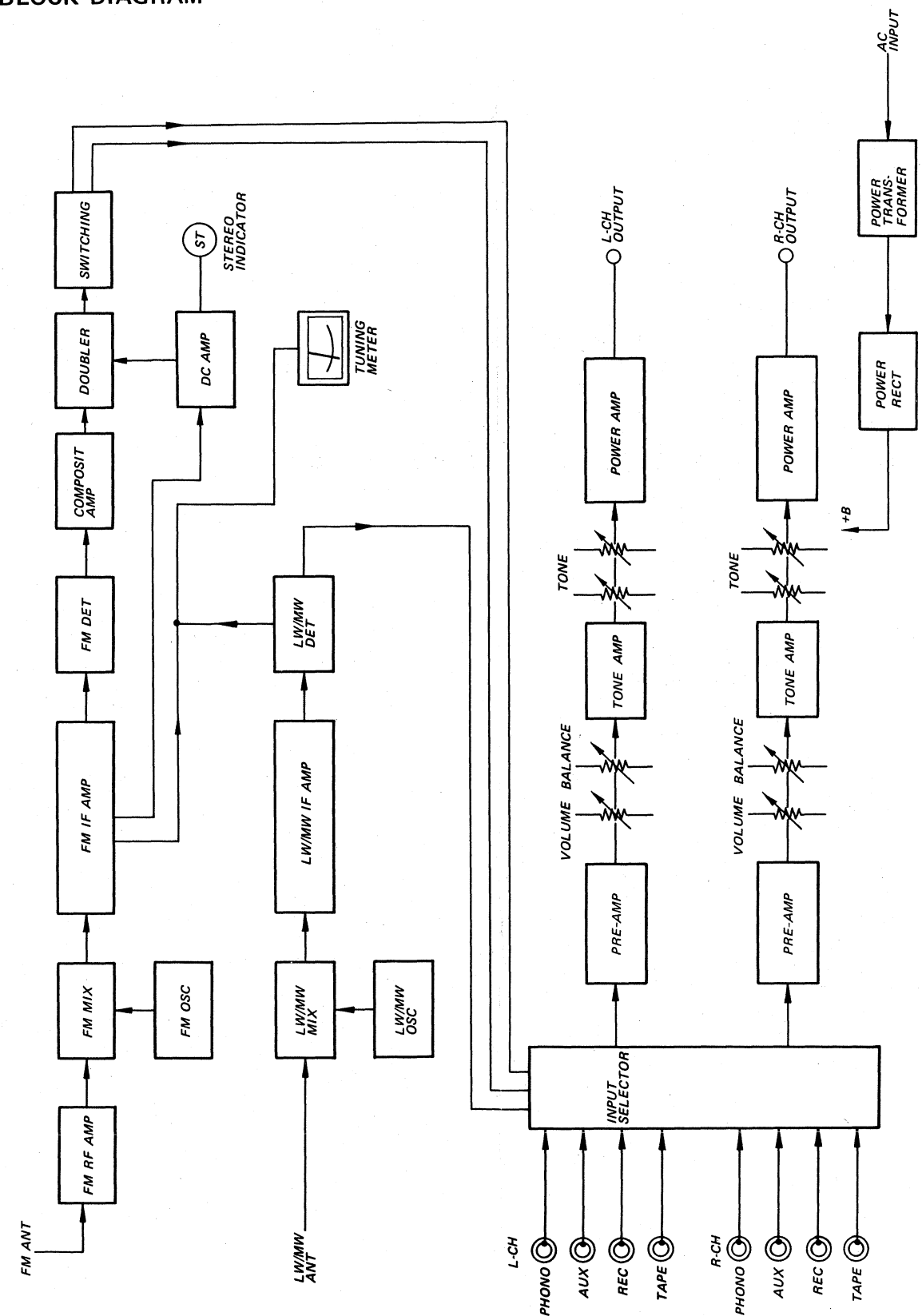
7109P-JA having voltage ratings of 50V is selected for use. It is marked with a white identification dot as shown.

GV classification of the IC is as follows:

- A: 34.5 to 36.5 dB
- B: 35.5 to 37.5 dB
- C: 36.5 to 38.5 dB

For replacement of the IC, use one whose GV classification is the same as the IC of the other channel.

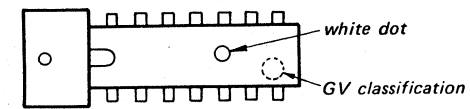
10. BLOCK DIAGRAM



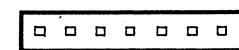
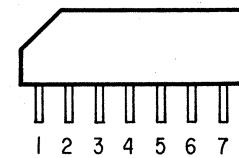
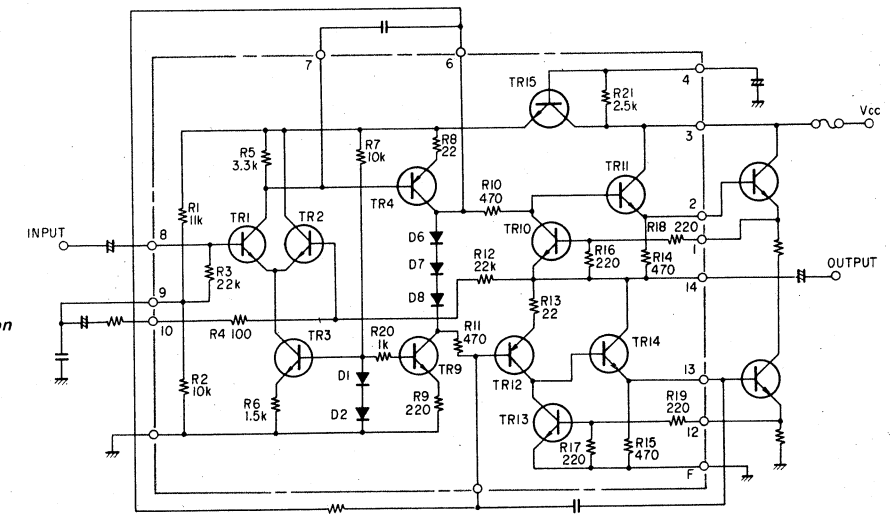
MEMO

11. CIRCUIT SCHEMATIC AND MOUNTING DIAGRAMS

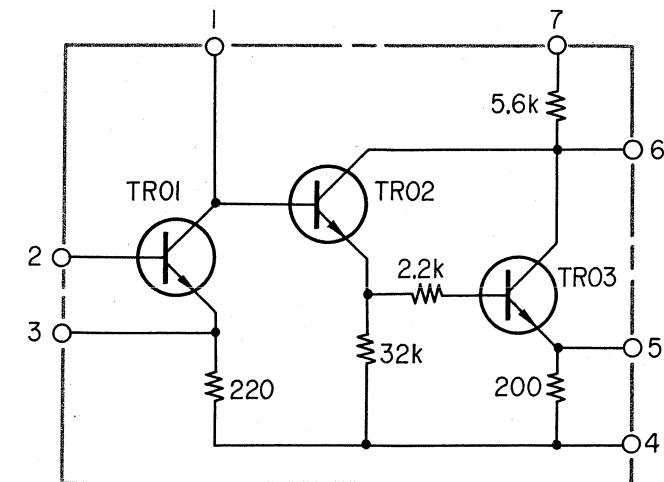
11-1. INTEGRATED CIRCUIT



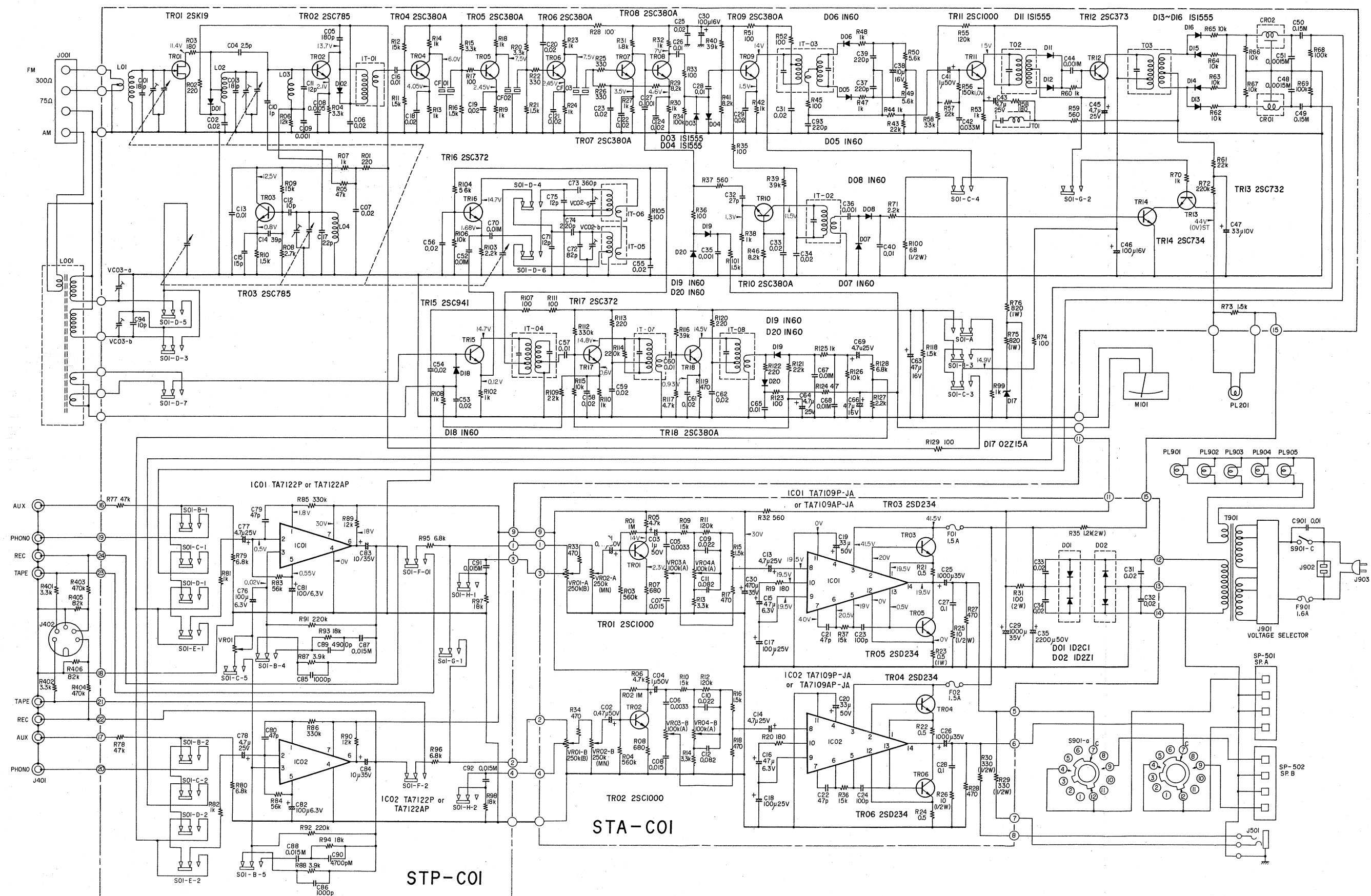
TA-7109P-JA or TA-7109AP-JA



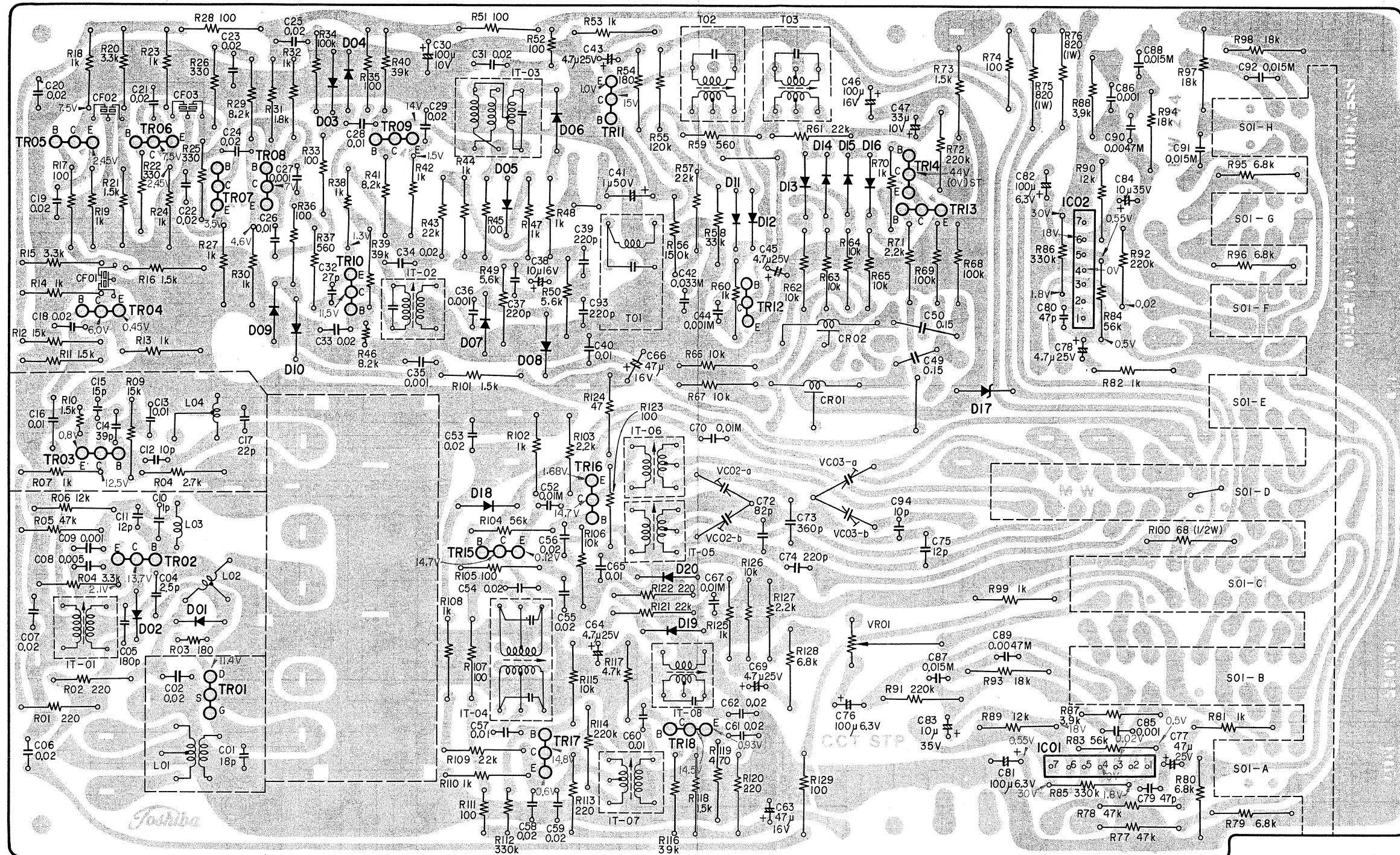
TA-7122P or TA-7122AP

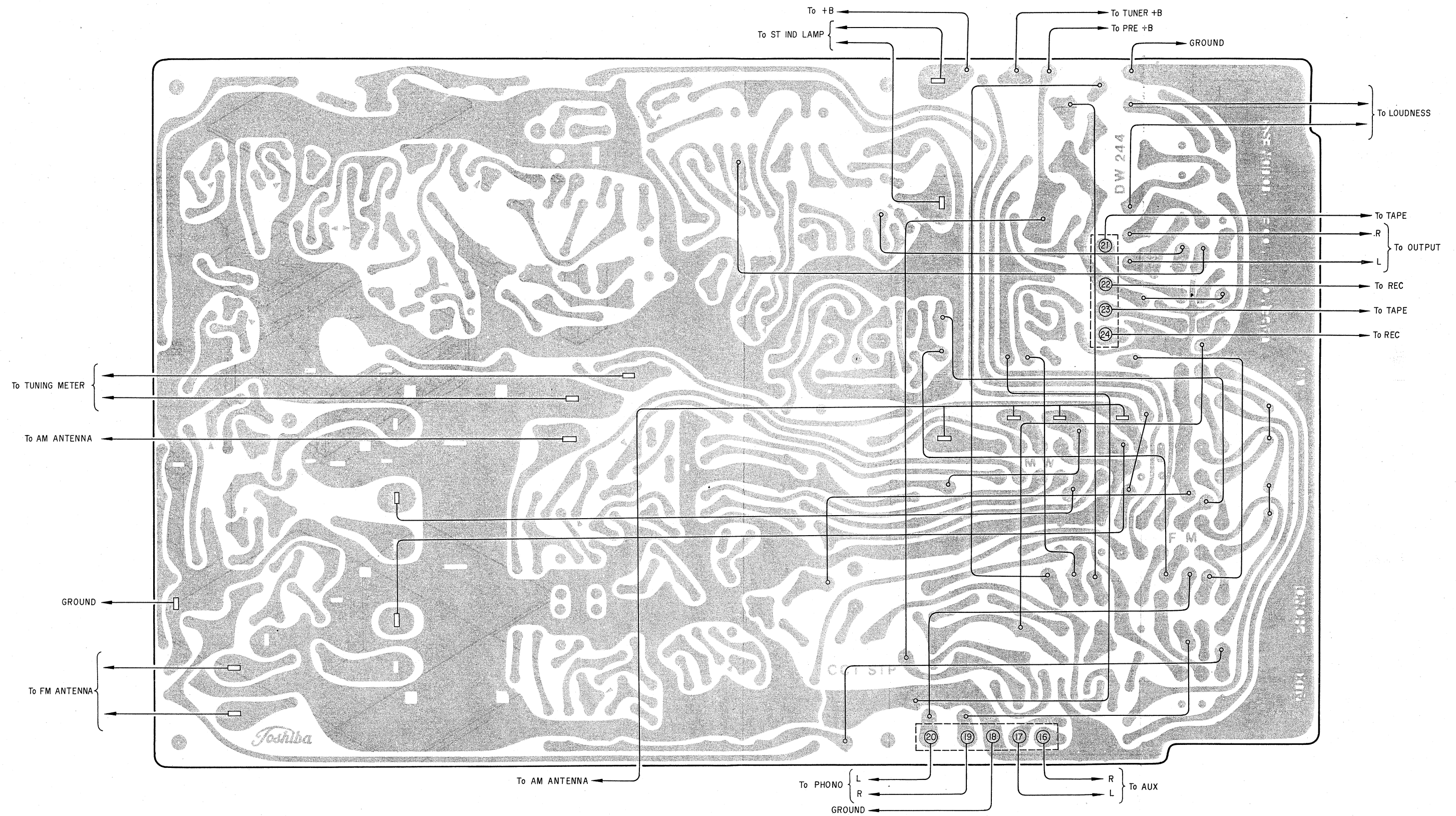


11-2. CIRCUIT SCHEMATIC GENERAL

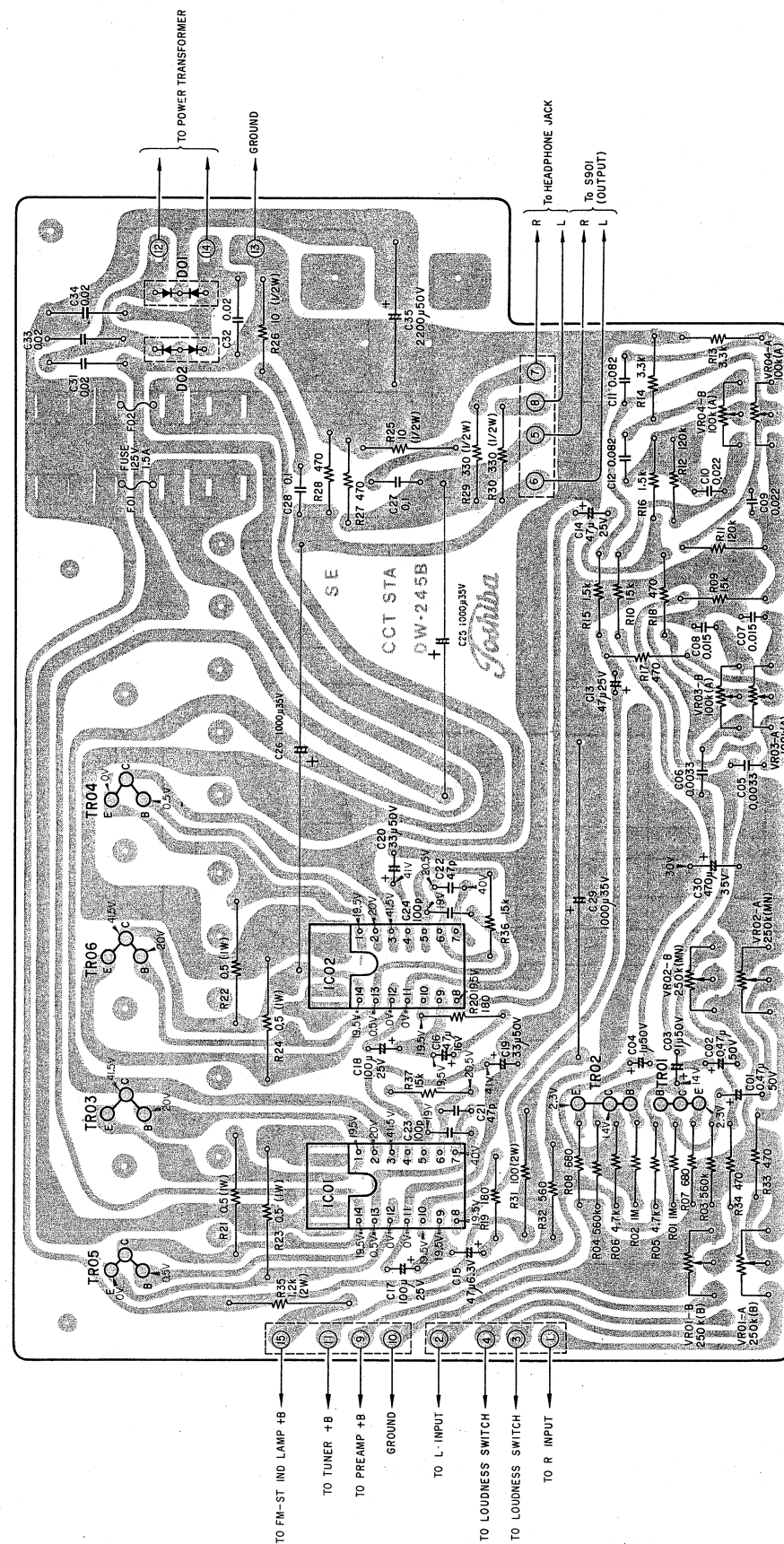


11-3. TUNER CIRCUIT BOARD MOUNTING DIAGRAM

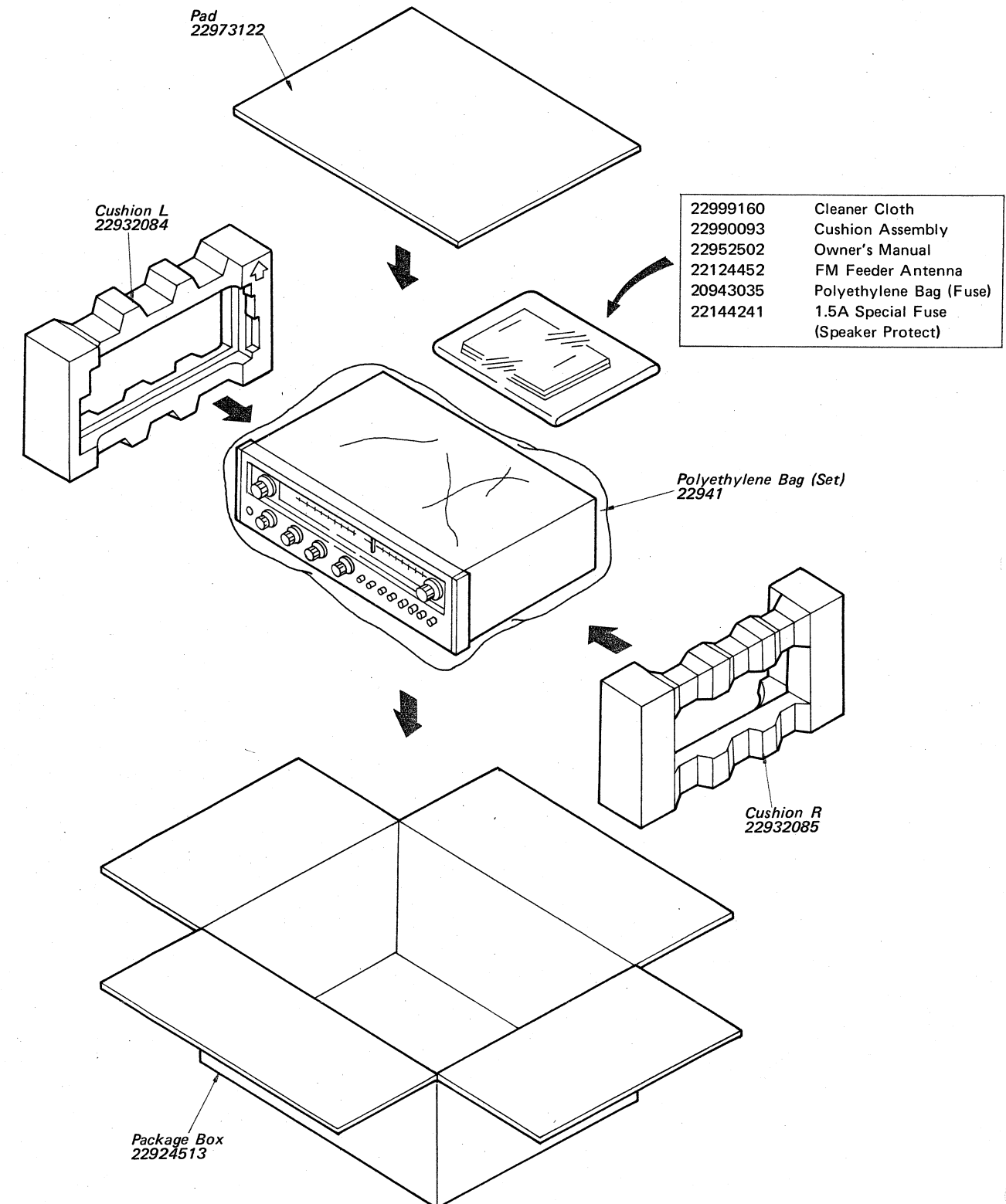




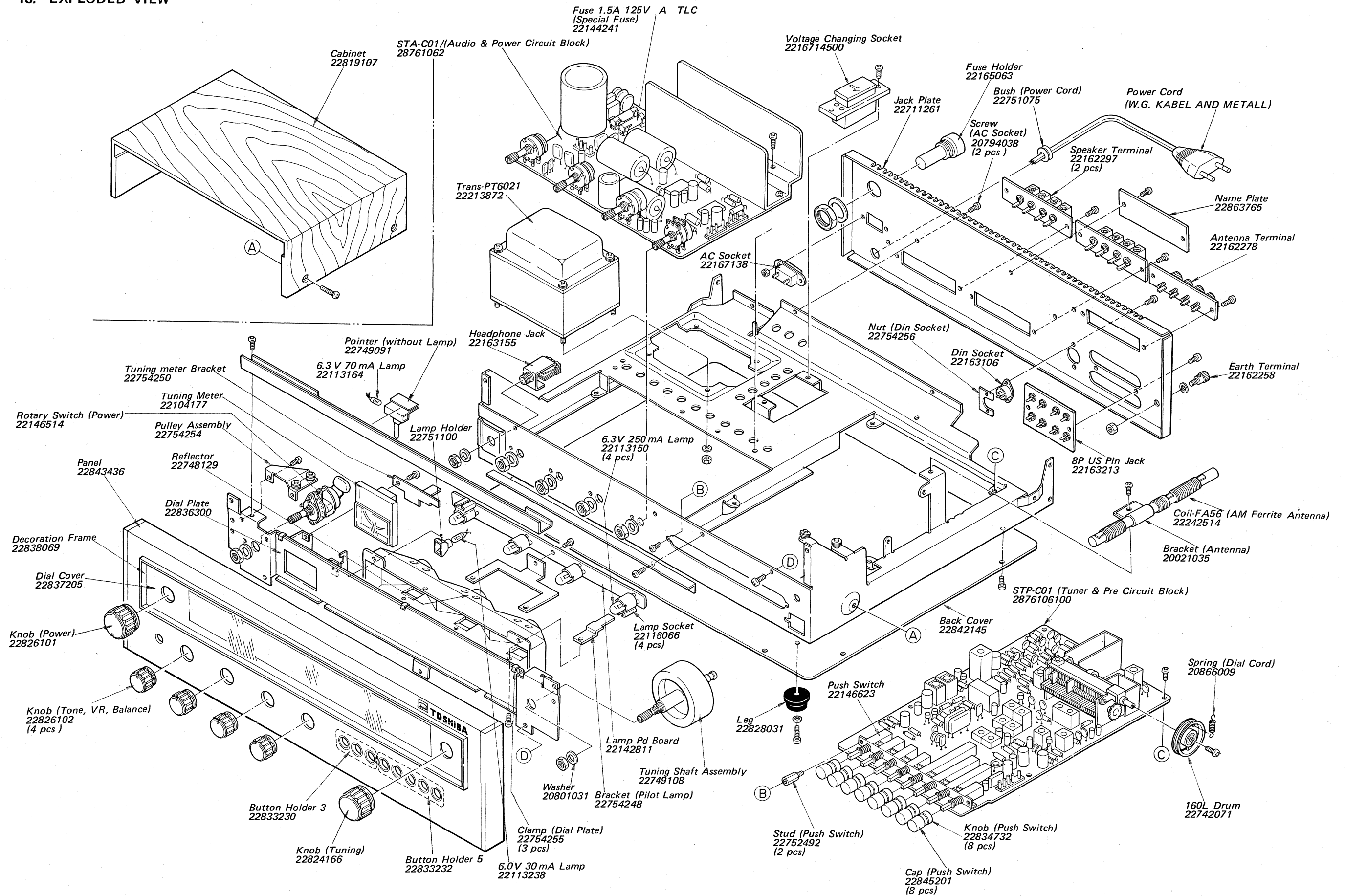
11-4. AUDIO CIRCUIT BOARD MOUNTING DIAGRAM



12. PACKING



13. EXPLODED VIEW





14. PARTS LIST

SYMBOL No.		PART No.		DESCRIPTION		SYMBOL No.		PART No.		DESCRIPTION	
TUNER AND PRE AMP UNIT (CCT-STP-C01)						R59	22544561	560ohm	K	1/8W	RD
RESISTORS						R60	22544102	1kohm	K	1/8W	RD
						R61	22544223	22kohm	K	1/8W	RD
R01, 02	22544221	220ohm	K	1/8W	RD	R62,63,64 R65,66,67	22544103	10kohm	K	1/8W	RD
R03	22544181	180ohm	K	1/8W	RD	R68, 69	22544104	100kohm	K	1/8W	RD
R04	22544332	3.3kohm	K	1/8W	RD	R70	22544102	1kohm	K	1/8W	RD
R05	22544473	47kohm	K	1/8W	RD	R71	22544222	2.2kohm	K	1/8W	RD
R06	22544123	12kohm	K	1/8W	RD	R72	22544224	220kohm	K	1/8W	RD
R07	22544102	1kohm	K	1/8W	RD	R73	22544152	1.5kohm	K	1/8W	RD
R08	22544272	2.7kohm	K	1/8W	RD	R74	22544101	100ohm	K	1/8W	RD
R09	22544153	15kohm	K	1/8W	RD	R75, 76	22570017	820ohm	K	1W	RS
R10, 11	22544152	1.5kohm	K	1/8W	RD	R77, 78	22544473	47kohm	K	1/8W	RD
R12	22544153	15kohm	K	1/8W	RD	R79, 80	22544682	6.8kohm	K	1/8W	RD
R13, 14	22544102	1kohm	K	1/8W	RD	R81, 82	22544102	1kohm	K	1/8W	RD
R15	22544332	3.3kohm	K	1/8W	RD	R83, 84	22544563	56kohm	K	1/8W	RD
R16	22544152	1.5kohm	K	1/8W	RD	R85, 86	22544334	330kohm	K	1/8W	RD
R17	22544101	100ohm	K	1/8W	RD	R87, 88	22544392	3.9kohm	K	1/8W	RD
R18, 19	22544102	1kohm	K	1/8W	RD	R89, 90	22544123	12kohm	K	1/8W	RD
R20	22544332	3.3kohm	K	1/8W	RD	R91, 92	22544224	220kohm	K	1/8W	RD
R21	22544152	1.5kohm	K	1/8W	RD	R93, 94	22544183	18kohm	K	1/8W	RD
R22	22544331	330ohm	K	1/8W	RD	R95, 96	22544682	6.8kohm	K	1/8W	RD
R23, 24	22544102	1kohm	K	1/8W	RD	R97, 98	22544183	18kohm	K	1/8W	RD
R25, 26	22544331	330ohm	K	1/8W	RD	R99	22544102	1kohm	K	1/8W	RD
R27	22544102	1kohm	K	1/8W	RD	R100	22563681	680ohm	K	1/2W	RC
R28	22544101	100ohm	K	1/8W	RD	R101	22544152	1.5kohm	K	1/8W	RD
R29	22544822	8.2kohm	K	1/8W	RD	R102	22544102	1kohm	K	1/8W	RD
R30	22544102	1kohm	K	1/8W	RD	R103	22544222	2.2kohm	K	1/8W	RD
R31	22544182	1.8kohm	K	1/8W	RD	R104	22544563	56kohm	K	1/8W	RD
R32	22544102	1kohm	K	1/8W	RD	R105	22544101	100ohm	K	1/8W	RD
R33	22544101	100ohm	K	1/8W	RD	R106	22544103	10kohm	K	1/8W	RD
R34	22544104	100kohm	K	1/8W	RD	R107	22544101	100ohm	K	1/8W	RD
R35, 36	22544101	100ohm	K	1/8W	RD	R108	22544102	1kohm	K	1/8W	RD
R37	22544561	560ohm	K	1/8W	RD	R109	22544223	22kohm	K	1/8W	RD
R38	22544102	1kohm	K	1/8W	RD	R110	22544102	1kohm	K	1/8W	RD
R39, 40	22544393	39kohm	K	1/8W	RD	R111	22544101	100ohm	K	1/8W	RD
R41	22544822	8.2kohm	K	1/8W	RD	R112	22544334	330kohm	K	1/8W	RD
R42	22544102	1kohm	K	1/8W	RD	R113	22544221	220ohm	K	1/8W	RD
R43	22544223	22kohm	K	1/8W	RD	R114	22544224	220kohm	K	1/8W	RD
R44	22544102	1kohm	K	1/8W	RD	R115	22544103	10kohm	K	1/8W	RD
R45	22544101	100ohm	K	1/8W	RD	R116	22544393	39kohm	K	1/8W	RD
R46	22544822	8.2kohm	K	1/8W	RD	R117	22544472	4.7kohm	K	1/8W	RD
R47, 48	22544102	1kohm	K	1/8W	RD	R118	22544152	1.5kohm	K	1/8W	RD
R49, 50	22544562	5.6kohm	K	1/8W	RD	R119	22544471	470ohm	K	1/8W	RD
R51, 52	22544101	100ohm	K	1/8W	RD	R120	22544221	220ohm	K	1/8W	RD
R53	22544102	1kohm	K	1/8W	RD	R121	22544223	22kohm	K	1/8W	RD
R54	22544181	180ohm	K	1/8W	RD	R122	22544221	220ohm	K	1/8W	RD
R55	22544124	120kohm	K	1/8W	RD	R123	22544101	100ohm	K	1/8W	RD
R56	22544154	150kohm	K	1/8W	RD	R124	22544470	47ohm	K	1/8W	RD
R57	22544223	22kohm	K	1/8W	RD	R125	22544102	1kohm	K	1/8W	RD
R58	22544333	33kohm	K	1/8W	RD						

SYMBOL No.	PART No.	DESCRIPTION				SYMBOL No.	PART No.	DESCRIPTION			
R126	22544103	10kohm	K	1/8W	RD	C58, 59	22342223	0.02μF	Z	CK	
R127	22544222	2.2kohm	K	1/8W	RD	C60	22342103	0.01μF	Z	CK	
R128	22544682	6.8kohm	K	1/8W	RD	C61, 62	22342223	0.02μF	Z	CK	
R129	22544101	100ohm	K	1/8W	RD	C63	22445470	47μF	16WV	CE	
CAPACITORS						C64	22446479	4.7μF	25WV	CE	
						C65	22342103	0.01μF	Z	CK	
C01	22360146	18pF	50V	J	CC (RH)	C66	22445470	47μF	16WV	CE	
C02	22342223	0.02μF		Z	CK	C67, 68	22373103	0.01μF	50V	M	MY
C03	22360146	18pF	50V	J	CC (RH)	C69	22446479	4.7μF	25WV	CE	
C04	22361259	2.5pF	50V		CC (SL)	C70	22373103	0.01μF	50V	M	MY
C05	22360242	180pF	50V			C71	22362120	12pF	50V	K	CC (SL)
C06, 07	22342223	0.02μF		Z	CK	C72	22362820	82pF	50V	K	CC (SL)
C08	22342472	0.0047μF		Z	CK	C73	22381361	360pF	50V	J	PE
C09	22341102	0.001μF		P	CK	C74	22381221	220pF	50V	J	PE
C10	22361109	1pF	50V		CC (SL)	C75	22362120	12pF	50V	K	CC (SL)
C11	22362120	12pF	50V	K	CC (SL)	C76	22442101	100μF	6.3WV	CE	
C12	22360131	10pF	50V	J	CC (CH)	C77, 78	22446479	4.7μF	25WV	CE	
C13	22342103	0.01μF		Z	CK	C79, 80	22362470	47pF	50V	K	CC (SL)
C14	22360137	39pF	50V	J	CC (CH)	C81, 82	22442101	100μF	6.3WV	CE	
C15	22360132	15pF	50V	J	CC (CH)	C83, 84	22447100	10μF	35WV	CE	
C16	22342103	0.01μF		Z	CK	C85, 86	22341102	0.001μF		P	CK
C17	22360141	22pF	50V	J	CC (PH)	C87, 88	22373153	0.015μF	50V	M	MY
C18,19,20,21 C22,23,24,25	22342223	0.02μF		Z	CK	C89, 90	22373472	0.0047μF	50V	M	MY
C26	22342103	0.01μF		Z	CK	C91, 92	22373153	0.015μF	50V	M	MY
C27	22341102	0.001μF		P	CK	C93	22343221	220pF	50V		CK
C28	22342103	0.01μF		Z	CK	C94	22362100	10pF	50V	K	CC (SL)
C29	22342223	0.02μF		Z	CK	C95	22361309	3pF	50V		CC (SL)
C30	22445101	100μF	16WV		CE	VR01	22658179	5kohm	B	FM-ST	Separation Control
C31	22342223	0.02μF		Z	CK	VC01	22307354	Variable Capacitor			
C32	22362270	27pF	50V	K	CC (SL)	VC02, 03	22309114	Trimmer Capacitor			
C33, 34	22342223	0.02μF		Z	CK	S01	22146623	Push Switch			
C35, 36	22341102	0.001μF		P	CK	L01	22292037	COIL-RT81T		FM ANT	
C37	22343221	220pF	50V		CK	L02	22292043	COIL-RT81T		FM RF	
C38	22445100	10μF	16WV		CE	L03	22291049	RF-COIL-RC-408			
C39	22343221	220pF	50V		CK	L04	22295016	COIL-RT8057		FM OSC	
C40	22342103	0.01μF		Z	CK	CF01,02,03	22153024	Ceremic Filter			
C41	22448109	1μF	50WV		CE	IT01	22265655	IFT-IT6478		FM IFT	
C42	22373333	0.033μF	50V	M	MY	IT02	22265654	IFT-IT6479		FM	
C43	22446479	4.7μF	25WV		CE	IT03	22267306	IFT-IT8475		Discre Trans	
C44	22373102	0.001μF	50V	M	MY	IT04	22264643	IFT1106B		AM IFT	
C45	22446479	4.7μF	25WV		CE	IT05	22205029	COIL-RT74		LW OSC	
C46	22445101	100μF	16WV		CE	IT06	22245232	COIL-RT7288		MW OSC	
C47	22443330	33μF	10WV		CE	IT07	22264626	IFT-IT5477		AM IFT	
C48	22373152	0.0015μF	50V	M	MY	IT08	22266308	IFT-IT5476		AM IFT	
C49, 50	22373154	0.15μF	50V	M	MY	T01	22212028	COIL-ST1112		19kHz Trap	
C51	22373152	0.0015μF	50V	M	MY	T02	22212041	COIL-ST31		19kHz	
C52	22373103	0.01μF	50V	M	MY	T03	22212042	COIL-ST32		38kHz	
C53,54,55,56	22342223	0.02μF		Z	CK	CR01, 02	22134065	CR-T-01		38kHz Trap	
C57	22342103	0.01μF		Z	CK	TR01		2SK19-GR			

SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION
TR02, 03		2SC785-O	C21, 22	22362470	47pF 50V K CC (SL)
TR04~10		2SC380A-O	C23, 24	22343101	100pF 50V CK
TR11		2SC1000-GR	C25, 26	22457102	1000μF 35WV CE
TR12		2SC373	C27, 28	22373104	0.1μF 50V M MY
TR13		2SC732-GR	C29	22457102	1000μF 35WV CE
TR14		2SC734-GR	C30	22447471	470μF 35WV CE
TR15		2SC941-Y	C31~34	22340032	0.02μF AC500V Z CK
TR16, 17		2SC372-O	C35	22430028	2200μF 50WV CE
TR18		2SC380A-O	VR01	22650420	250kohm B (Volume)
D01,02,03,04		1S1555V	VR02	22650418	250kohm MN (Balance)
D05, 06		1N60-MPX	VR03, 04	22650419	100kohm A (Treble, Bass)
D07,08,09,10		1N60	F01, 02	22144172	Fuse 1.25A 125V
D11,12,13,14			Tr01, 02		2SC1000-BL
D15, 16		1S1555V	Tr03~06		2SD234-Y
D17		02Z15A	D01		1D2C1
D18		1N60	D02		1D2Z1
D19		1N60-MPX	IC01, 02		TA7109P-JA or TA7109AP-JA
D20		1N60			AC-55B Accessory of Transistor
IC01, 02		TA7122P or TA7122AP			
AUDIO AND POWER SUPPLY UNIT (CCT-STA-C01)			ELECTRICAL PARTS		
RESISTORS			T901	22213872	TRANS-PT6021 Power Trans
R01, 02	22544105	1Mohm K 1/8W RD	S901	22146514	Rotary Switch Power
R03, 04	22544564	560kohm K 1/8W RD	STP-C01		
R05, 06	22544472	4.7kohm K 1/8W RD	S01	22146623	Push Switch
R07, 08	22544681	680ohm K 1/8W RD	STA-C01		
R09, 10	22544153	15kohm K 1/8W RD	F01, 02	22144241	Fuse 1.5A 125V (A TLC Special Fuse)
R11, 12	22544124	120kohm K 1/8W RD	F901	22144175	Fuse 1.6A 250V
R13, 14	22544332	3.3kohm K 1/8W RD		22165048	Fuse Holder
R15, 16	22544152	1.5kohm K 1/8W RD		22165063	Fuse Holder
R17, 18	22544471	470ohm K 1/8W RD	M101	22104177	Tuning Meter
R19, 20	22544181	180ohm K 1/8W RD	PL905	22113164	6.3V 70mA Lamp Pointer
R21,22,23,24	22570031	0.5ohm K 1W RS	PL201	22113238	6.0V 30mA Lamp Stereo Indicator
R25, 26	22563100	10ohm K 1/2W RC	PL901~904	22113150	6.3V 250mA Lamp Dial 3 Tuning Meter 1
R27, 28	22544471	470ohm K 1/8W RD		22116066	Lamp Socket
R29, 30	22563331	330ohm K 1/2W RC		22142811	Lamp PC Board
R31	22570021	100ohm K 2W RS	J901	22167145	Voltage Changing Socket
R32	22544561	560ohm K 1/8W RD	J501	22163155	Headphone Jack
R33, 34	22544471	470ohm K 1/8W RD		22162258	Earth Terminal
R35	22570075	1.2kohm K 2W RS	J001	22162278	Antenna Terminal
R36, 37	22544153	15kohm K 1/8W RD	SP501, 502	22162294	Speaker Terminal
C01, 02	22558478	0.47μF 50WV CE	J401	22163213	8P US Pin Jack
C03, 04	22448109	1μF 50WV CE	J402	22167131	DIN Socket
C05, 06	22373332	0.0033μF 50V M MY	J902	22167138	AC Socket
C07, 08	22373153	0.015μF 50V M MY		22168062	Feeder Cable
C09, 10	22373223	0.022μF 50V M MY	J903	22176286	Power Cord (W.G. KABEL und METALL)
C11, 12	22373823	0.082μF 50V M MY		22167411	5P-SOCKET
C13, 14	22446479	4.7μF 25WV CE		22167410	4P-SOCKET
C15, 16	22442470	47μF 6.3WV CE	L001	22242514	COIL-FA56 AM Ferrit Antenna
C17, 18	22446101	100μF 25WV CE			
C19, 20	22448330	33μF 50WV CE			